Commonwealth of Kentucky Division for Air Quality

PERMIT STATEMENT OF BASIS

Title V proposed/final permit, No. V-97-002

KENTUCKY UTILITIES TYRONE POWER GENERATING STATION

Tyrone, Kentucky 40383 May 26, 2000 MARION T. WATSON

SOURCE DESCRIPTION, CONTROL EQUIPMENTS & CONSTRUCTION DATES:

E. Unit 01:	No. 2 fuel-oil fired indirect-heat-exchanger commenced construction in 1947.
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- E. Unit 02: No. 2 fuel-oil fired indirect-heat-exchanger commenced construction in 1947.
- E. Unit 03: No. 2 fuel-oil fired indirect-heat-exchanger commenced construction in 1968.
- E. Unit 04: No. 2 fuel-oil fired indirect-heat-exchanger commenced construction in 1968.
- E. Unit 05: Dry-bottom, pulverized-coal, wall-fired indirect-heat-exchanger equipped with an electrostatic precipitator commenced construction in 1953.
- E. Unit 06: Coal conveying and handling equipment: coal receiving hopper, crusher, hopper, stockpile, and haul roads equipped with enclosures and wet suppression equipment commenced construction in 1953.
- E. Unit 07: No. 2 fuel-oil fired auxiliary indirect-heat-exchanger commenced construction in 1963.

REGULATION APPLICABILITY:

All regulations applicable to the emissions units are listed in the permit. The following regulations are not applicable based on size of emissions unit or applicability date of regulation.

Regulations not applicable to Emissions Units 01, 02, 03, 04, 05, and 07 due to applicability date or size of unit:

Regulation 401 KAR 59:016, New electric utility steam generating unit, incorporating by reference Title 40 CFR Part 60, Subpart Da, Standards of performance for electric utility steam generating units applicable to an emissions unit with a capacity of more than 250 MMBTU/hour and commenced on or after September 19, 1978.

KENTUCKY UTILITIES COMPANY, TYRONE STATION STATEMENT OF BASIS PAGE TWO

Regulation 401 KAR 60:042, Standards of performance for industrial-commercial-institutional steam generating units, incorporating by reference Title 40 CFR Part 60, Subpart Db, applicable to an emissions unit of greater than 100 MMBTU/hour and constructed after June 19, 1984.

Regulation 401 KAR 60:043, Standards of performance for small industrial-commercial-institutional steam generating units, incorporating by reference 40 CFR 60, Subpart Dc, applicable to an emissions unit with a design capacity of 100 MMBTU/hour or less and greater than or equal to 10 MMBTU/hour and constructed after June 9, 1989.

Regulation 59:015, New indirect heat exchangers: applicable to an emission unit with a design capacity of more than 250 MMBTU/hour and constructed on or after August 17, 1971, applicable to an emissions unit with a design capacity of 250 MMBTU/hour or less and constructed on or after April 9, 1972, and applicable to an emissions unit with a design capacity of more than 250 MMBTU/hour constructed on or after December 22, 1972 when lignite fuel is burned.

Regulations (coal handling) not applicable to Emission Unit 06 due to the definition of an affected facility:

Regulation 401 KAR 60:250, Standards of performance for coal preparation plants, adopting by reference Title 40 CFR Part 60, Subpart Y.

COMMENTS:

- The permittee has not proposed any alternate operating scenario for any of the emissions units.
- This permit does not impose any emission cap on any of the emissions units.
- The permittee may assure compliance with the sulfur dioxide allowable standard for emission unit 05 by using sulfur dioxide continuous emission monitoring data.
- The permittee will be required to conduct at least two particulate matter mass emission performance tests for emissions unit 05 to demonstrate compliance with allowable particulate matter mass emission standard within the term of this permit. The permittee may assure continuing compliance with the opacity standard using COM data. The permittee may assure continuing compliance with the particulate matter mass emission standard using the COM data as described in the permit. Additional stack testing for particulate matter emissions may be required under circumstances described in the permit.
- Emission unit 06 is subject to Regulation 401 KAR 63:010, Fugitive emissions and is considered to be compliance when using control measures required by regulation.
- The three hour averaging time associated with the particulate matter mass emission standards for emissions units 01, 02, 03, 04, 05, and 07 are applicable during compliance demonstration through performance tests if required by the Division.

KENTUCKY UTILITIES COMPANY, TYRONE STATION STATEMENT OF BASIS PAGE THREE

- The permittee may ensure compliance with the particulate matter and sulfur dioxide mass emission standards for emissions units 01, 02, 03, 04, and 07 by performing fuel analyses on the fuel to be combusted, monitoring the usage rate, and performing calculations as proposed in the permit. Compliance with the opacity standard may be ensured by determining opacity of emissions using US EPA Reference Method 9.
- The permittee shall submit a compliance assurance monitoring (CAM) plan for emissions units 01, 02, 03, 04, and 05 with an application for significant revision of those emissions units or with the application for Title V renewal.
- This source is subject to acid rain requirements and the Division has issued Phase II acid rain permit for this facility; Permit Number: AR-96-06.
- This permittee may ensure compliance with the particulate matter emission limitations by conducting a performance test for particulate matter emissions for emissions units 01, 02, 03, and 04 once during the term of the permit.